WOOD CLAD SLIDING PATIO DOOR INSTALLATION INSTRUCTIONS

1) Preparation of the Rough Opening

a) Clean the floor area around the door opening. If necessary, scrape off mortar or plaster spills. Double check the rough opening dimensions. The rough opening should be ⅛" wider and ⅛" taller than the outside dimension of the frame (fig.1-3).

b) Critical Step: Make sure the floor is flat and level. If the sub-floor is not level it will adversely affect the rest of the installation. Do Not Continue Until The Floor Is Level! (fig.4)

c) Check the rough opening for plumb and square. Check both walls for plumb and all four corners for square. Make the necessary corrections prior to installing the door unit (fig.5-6).

d) Cut the water resistive barrier.

d1) Make (2) 45 degree, 6" cuts extending from the corners of the rough opening (fig.7).

d2) Following the front edge of the opening, cut the barrier across the length of the header.

d3) Fold the water resistive barrier up and tape it in place. It will be folded back down at the end of the installation (fig.8).

e) Apply Sill flashing tape by:

e1) Cutting one piece of tape 12" longer than the width of the opening.

e2) Begin applying the flashing tape 6" up from the rough opening floor on one end and hanging over the exterior side ½". At the corner cut a 1" wide tab (fig.9). Repeat through the other side. Note: Press the flashing firmly against the water resistant barrier and the subfloor.

e3) If necessary apply a second strip of flashing to the inside of the rough opening overlapping the first strip by at least 1". Note: Do not extend the flashing beyond the interior framing (fig.10).
2) Preparation of the Door Unit

- a) Remove the door handles from the door unit. The door unit cannot be installed until they are removed (fig. 11).
- b) Cut the cardboard to remove the bracing board from the bottom of the door (fig. 12).
- c) Remove the cable tie holding the active door closed (fig. 13).
- d) Remove any other packaging materials from the door unit at this time.

3) Setting the Door Unit

- a) Apply a triple bead of silicone caulking to the sub-floor of the rough opening (fig. 14).
- b) Apply a bead of caulking around the perimeter of the rough opening (fig. 15).
- c) Using two people, set the sill into the rough opening. Center the frame into the opening and tip the unit into place (fig. 16).
- d) Once the unit is centered in the rough opening, install (1) 2" roofing nail in the first nailing hole on each upper corner of the nailing fin (fig. 17). Note: A pry bar may be used to move the door unit from left to right in order to center it in the opening (fig. 18).

4) Shimming the Door Unit

- a) Measure diagonally across the door unit to determine if the door unit is square. From corner to corner the measurement should be the same. Move the sill as necessary to square the door unit (fig. 19).
- b) Once the door unit is square, install one 2" roofing nail into the bottom hole of each of the two door flanges (fig. 20).
- c) Apply shims to the strike and fixed side of the door until the jambs are plumb (fig. 21).
- d) Check the frame using a level to ensure they are straight and then apply roofing nails into the remaining nail holes. Repeat for both sides (fig. 22) and the header.
5) Sealing the Door Unit

a) Apply flashing tape over the side flanges by cutting two pieces of flashing tape $4"$ longer than the height of the nailing flange. The tape should extend $2"$ above the door and $2"$ below the door. All nail heads should be covered by the tape (fig. 23).

b) Cut a third piece of flashing tape for the header. It should be cut so that it extends at least $1"$ beyond the edge of the two flashing tapes applied in the previous step (fig. 24).

c) Fold the water barrier over the flashing tape (fig. 25).

d) Cut two pieces of flashing tape at least $1"$ longer than the diagonal cuts in the water barrier. Apply them over the diagonal cuts, overlapping the top corners of the nailing fin (fig. 26).

6) Fastening the Shims

a) Double check the inside strike jamb for plumb.

b) Place two sets of shims directly behind the top and bottom strike screw locations.

c) Remove the two outer $1"$ screws from the strike plate and replace them with (2) $3"$ screws provided (fig. 27).

d) Fasten the remaining fixed shim locations by pre-drilling $¹⁄₈"$ holes through the frame. Note: To hide the screw head, hold back the weatherstrip and drill behind it.

e) Install a #8 x $2½"$ fastener through the frame and shim and into the stud wall. Repeat for each shim location (fig. 28).

7) Adjusting the Rollers

a) To adjust the alignment of the active door there are two sets of adjustable rollers.

b) Begin by removing the roller caps from the bottom of the active door (fig. 29). This should be done using a large flat head screw driver turning counter clockwise.

c) Inside the adjustment hole there will be a phillips adjustment screw or a flat adjustment screw depending on the door unit type. Adjust the rollers up or down until the margin between the edge of the door and the strike jamb is even (fig. 30).

d) Re-apply the caps when the adjustments are complete.
8) Installing the Lockset

a) Insert the latching lever and apply the interior side of the lockset (fig.31-32).
b) Using the two screws provided, insert the screws into the holes on the interior side of the lockset (fig.33).
c) Install the lockset by placing the exterior side of the handle on the exterior face of the door and attaching it using the two Phillips screws and a #2 Phillips screw driver (fig.34-35).
d) Check operation of the handle set. Note: The latch will not engage unless the safety pin is depressed.

9) Insulating the Door Unit

Insulate the perimeter of the door unit by inserting fiberglass blanket insulation between the door frame and the rough opening around the perimeter of the door (fig.36).

10) Apply Casing

Apply casing around the interior perimeter of the door unit as desired (fig.37). Note: Be careful of the nail placement. The inner trim perimeter of the door unit is 1/2" thick. Nailing through this outer edge may lead to nails in your operating door unit (fig.38).

11) Finishing the Door Unit

Apply a minimum of two coats of paint, varnish, or sealer to all exposed wood surfaces as directed by the manufacturer of the finish materials. Avoid applying sealers to any vinyl or non-wood parts.

12) Disposal of Waste Materials

For proper handling and disposal of construction waste materials please consult your local building codes. Additional disposal recommendations can be found on the EPA website at www.epa.com

Questions or Concerns: For guest assistance contact MASTERCRAFT® by sending an email to: MastercraftDoorHelp@MidwestManufacturing.com
For more information, including troubleshooting help and videos, please visit: www.MastercraftDoors.com